

# Changing medication method influences total amount of administered antimicrobials

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# Changing medication method influences total amount of administered antimicrobials

## A register based study

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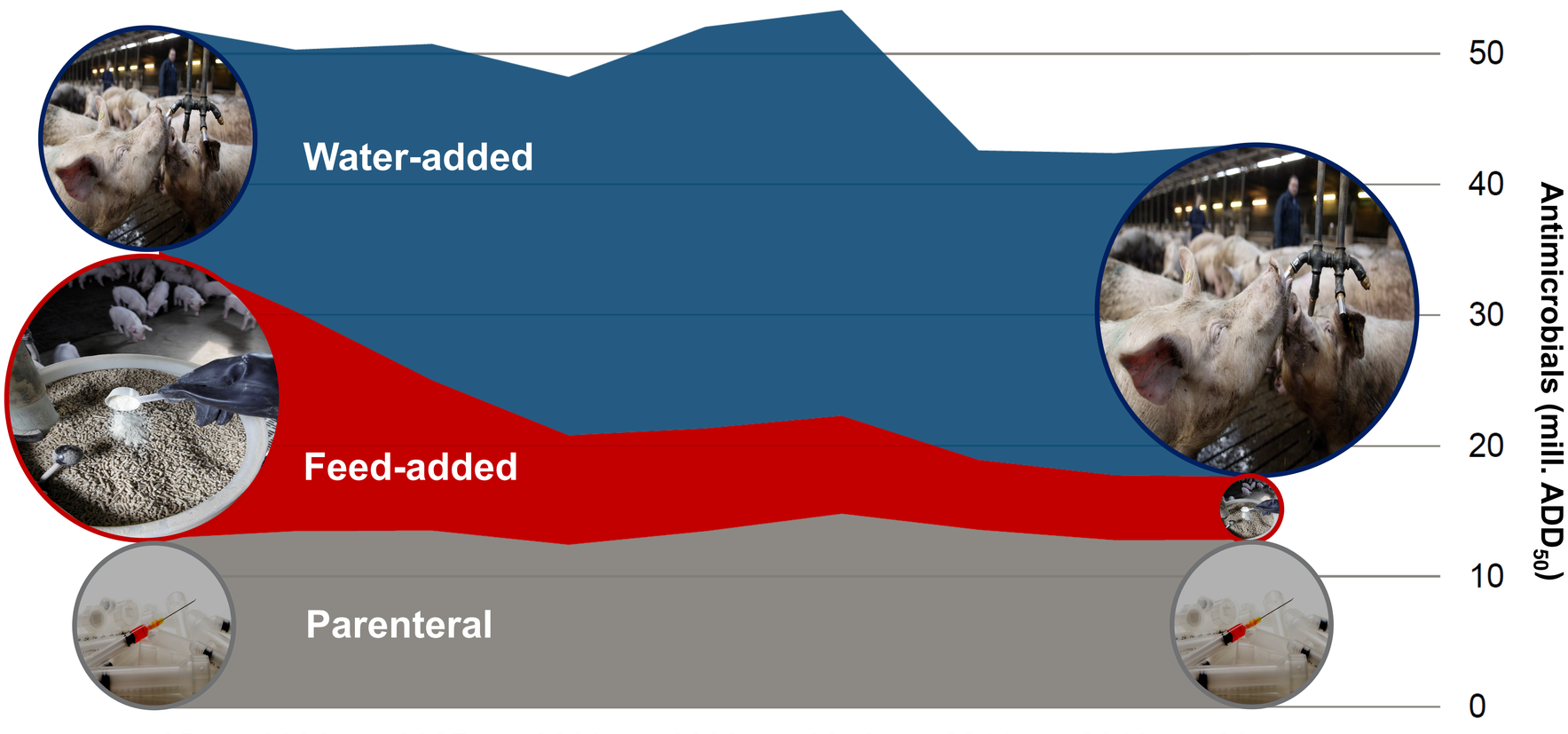
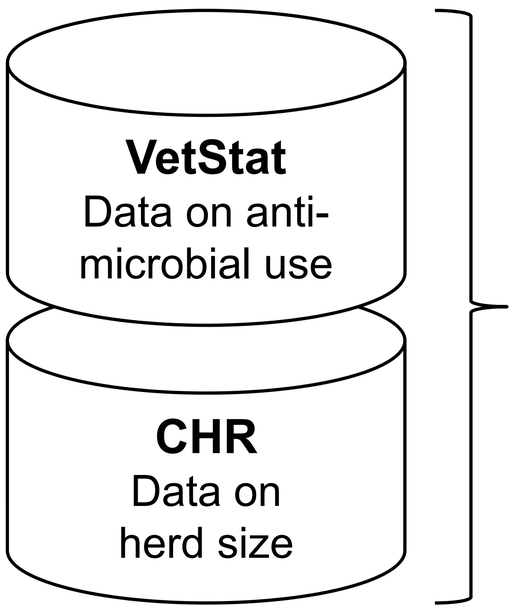



*Total amount of antimicrobials prescribed for Danish finishers during 2005-2013, by administration form.*

## Conclusion

Finisher herds going from feed- to water-administered antimicrobials for group treatment during 2008-09 significantly increased their total use of antimicrobials by 1.33 [0.33; 2.33] $ADD_{50}$/100 finishers/day. A general change of medication method may explain some of the increased use of antimicrobials during 2008-09.

## Data & Results



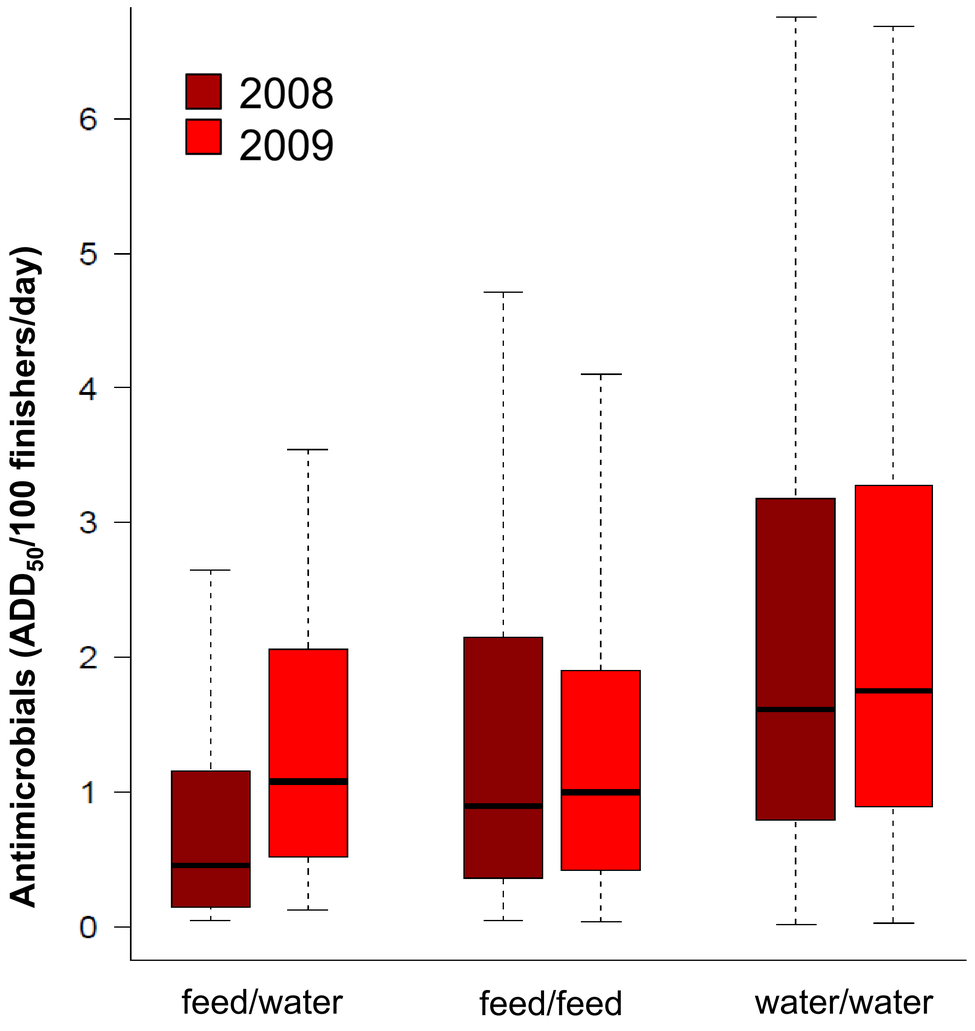

**Feed/water**
Finisher herds (69) changing from feed to water medication during 2008-09.

**Feed/feed (control 1)**
Finisher herds (325) with retained feed medication during 2008-09.

**Water/water (control 2)**
Finisher herds (711) with retained water medication during 2008-09.

For all three groups, the difference in prescribed antimicrobials between 2008-09 was calculated. Subsequently, it was tested whether the difference between years varied significantly between the three study groups.

| Test | | p-value |
|---|---|---|
| **Kruskal-Wallis** | | 0.0001 |
| **Pairwise comparison** | feed/water – feed/feed | 0.017 |
| | feed/water – water/water | 0.037 |
| | feed/feed – water/water | 0.709 |




*Use of antimicrobials for finishers during 2008-09 in the three study groups.*

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